		Pushing the Env	relope			
		2004 Science				
		Grade Level Articu	ulations			
Arizona Science						
Grade 5						
Activity/Lesson	State	Standards				
			Analyze and interpret data to avalois			
			Analyze and interpret data to explain correlations and results; formulate new			
			questions. Identify possible relationships			
Types of Engines (between variables in simple investigations (e.g.,			
pgs. 11-23)	AZ	SCI.5.1.3.PO 5	time and distance; incline and mass of object).			
pgo. 11 20)	7 12	001.0.1.0.1 0 0	Understand physical and chemical properties of			
Chemistry (pgs. 25-			matter: Distinguish between mixtures and			
41)	AZ	SCI.5.5.1.PO 2	compounds.			
			Understand the relationship between force and			
			motion: Describe the various effects forces can			
			have on an object (e.g., cause motion, halt			
Physics and Math			motion, change direction of motion, cause			
(pgs. 43-63)	AZ	SCI.5.5.2.PO 2	deformation).			
			Understand the relationship between force and			
			motion: Examine forces and motion through			
Physics and Math			investigations using simple machines (e.g.,			
(pgs. 43-63)	AZ	SCI.5.5.2.PO 3	wedge, plane, wheel and axle, pulley, lever).			
			Understand the relationship between force and			
			motion: Describe the various effects forces can			
Dookst Astivity (ngs			have on an object (e.g., cause motion, halt			
Rocket Activity (pgs. 69-75)	AZ	SCI.5.5.2.PO 2	motion, change direction of motion, cause deformation).			
09-73)	<u> </u>	301.3.3.2.1 0 2	Understand the relationship between force and			
			motion: Examine forces and motion through			
Rocket Activity (pgs.			investigations using simple machines (e.g.,			
69-75)	AZ	SCI.5.5.2.PO 3	wedge, plane, wheel and axle, pulley, lever).			
,						
		Pushing the Env				
		2004 Scienc Grade Level Articu				
Arizona Science		Olade Level Altice				
Grade 6						
Activity/Lesson	State	Standards				
			Identify individual, cultural, and technological			
			contributions to scientific knowledge: Identify			
			how diverse people and/or cultures, past and			
			present, have made important contributions to			
			scientific innovations (e.g., Jacques Cousteau			
			[inventor, marine explorer], supports Strand 4;			
Lliatom, of Assisting			William Beebe [scientist], supports Strand 4;			
History of Aviation	A 7	CCI 6 0 4 DC 4	Thor Heyerdahl [anthropologist], supports			
Propulsion (pgs. 5-9)	AZ	SCI.6.2.1.PO 1	Strand 6).			
		Pushing the Env	velone			
2004 Science						
Grade Level Articulations						

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Activity/Lesson State Standards Identify individual, cultural, and technological contributions to scientific knowledge: Identify how diverse people and/or cultures, past and present, have made important contributions to scientific innovations (e.g., Watson and Crick [scientist], support Strand 4; Rosalind Franklin [scientist], supports Strand 4; Charles Darwin [scientist], supports Strand 4; Charles Darwin [scientist], supports Strand 4; George Washington Carver [scientist, inventor], supports Strand 5; Sir Frances Bazon [philosopher], supports Strand 5; Israe Rose Bazon [philosopher], supports Strand 4; Observed Rose Bazon [philosopher], supports Strand 4; Joseph Priestley [scientist], supports Strand 4; Joseph Priestley [scientist], supports Strand 4; Joseph Priestley Strand 5; Israe Rose Bazon [philosopher], supports Strand 4; Joseph Priestley Strand 5; Israe Rose Bazon [philosopher], supports Strand 4; Joseph Priestley Strand 5; Israe Rose Bazon [philosopher], supports Strand 4; Joseph Priestley Strand 5; Israe Rose Bazon [philosopher], supports Strand 4; Charles Bazon [philosopher], supports Strand 4; C	Arizona Science			
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Pushing the Envelope						
2004 Science Grade Level Articulations						
Grades 9-12						
Activity/Lesson	State	Standards				
Chemistry (pgs. 25-41)	AZ	SCI.9-12.5.1.PO	Understand physical and chemical properties of matter: Describe substances based on their physical properties.			
Chemistry (pgs. 25-41)	AZ	SCI.9-12.5.1.PO	Understand physical and chemical properties of matter: Separate mixtures of substances based on their physical properties.			
Physics and Math (pgs. 43-63)	AZ	SCI.9-12.5.2.PO	Understand the relationship between force and motion: Explain how Newton's 1st Law applies to objects at rest or moving at constant velocity.			
Physics and Math (pgs. 43-63)	AZ	SCI.9-12.5.2.PO 4.a	Understand the relationship between force and motion: Using Newton's 2nd Law of Motion, analyze the relationships among the net force acting on a body, the mass of the body, and the resulting acceleration (graphically)			
Physics and Math (pgs. 43-63)	AZ	SCI.9-12.5.2.PO 4.b	Understand the relationship between force and motion: Using Newton's 2nd Law of Motion, analyze the relationships among the net force acting on a body, the mass of the body, and the resulting acceleration (mathematically)			
Physics and Math (pgs. 43-63)	AZ	SCI.9-12.5.2.PO 5	Understand the relationship between force and motion: Use Newton's 3rd Law to explain forces as interactions between bodies (e.g., a table pushing up on a vase that is pushing down on it; an athlete pushing on a basketball as the ball pushes back on her).			
Rocket Activity (pgs. 69-75)	AZ	SCI.9-12.5.2.PO 5	Understand the relationship between force and motion: Use Newton's 3rd Law to explain forces as interactions between bodies (e.g., a table pushing up on a vase that is pushing down on it; an athlete pushing on a basketball as the ball pushes back on her).			